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United States Department of Agriculture,

DIVISION OF PUBLICATIONS—CIRCULAR 14.

JOS. A. ARNOLD, Editor and Chief.

WASHINGTON, D. C., *August 25, 1911.*

PUBLICATIONS OF THE BUREAU OF SOILS.

NOTE.—Application for publications in this list should be made to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C. The editions of some of the publications are necessarily limited, and when the supply is exhausted and no funds are available for procuring additional copies, applicants are referred to the Superintendent of Documents, Government Printing Office, who has them for sale at a nominal price, under the law of January 12, 1895. Applicants are urgently requested to ask only for those publications in which they are particularly interested. The department can not undertake to supply complete sets, nor is it allowable to send more than one copy of any publication to an applicant.

REPORTS.

Report of the Chief for 1896.

Same, 1898.

Same, 1900.

Same, 1906.

Same, 1899.

Same, 1901.

REPORTS OF FIELD OPERATIONS.

Field Operations of the Bureau of Soils, First Report, 1899.

Same, Second Report, 1900.

Same, Sixth Report, 1904.

Same, Third Report, 1901.

Same, Seventh Report, 1905.

Same, Fourth Report, 1902.

Same, Ninth Report, 1907.

Same, Fifth Report, 1903.

Same, Tenth Report, 1908.

BULLETINS.

[In applying for these bulletins the name of the bureau, as well as the number of the bulletin, should be given, as "Bureau of Soils, Bulletin No. 1."]

- Bul. 1. Soil Moisture. A Record of the Amount of Water Contained in Soils During the Month of May, 1895.
2. Same for June, 1895.
3. Same for July, 1895.
6. An Electrical Method of Determining the Moisture Content of Arable Soils.
7. An Electrical Method of Determining the Temperature of Soils.
9. Soil Moisture: A Record of the Amount of Water Contained in Soils During the Crop Season of 1896.
10. The Mechanics of Soil Moisture.
12. The Electrical Method of Moisture Determination in Soils; Results and Modifications in 1897.
13. A Preliminary Report on the Soils of Florida.
14. The Alkali Soils of the Yellowstone Valley, from a Preliminary Investigation of the Soils near Billings, Mont.
18. Solution Studies of Salts Occurring in Alkali Soils.
21. Reclamation of Alkali Lands in Egypt, as Adapted to Similar Work in the United States.
22. The Chemistry of the Soil as Related to Crop Production.
23. Investigations in Soil Fertility.
24. The Centrifugal Method of Mechanical Soil Analysis.

- Bul. 27. Experiments in Growing Cuban Seed Tobacco in Texas.
- 28. Studies on the Properties of a Sterile Soil.
- 29. Tobacco Investigations in Ohio.
- 30. Mineral Constituents of the Soil Solution.
- 31. Colorimetric, Turbidity, and Titration Methods Used in Soil Investigations.
- 32. The Absorption of Phosphates and Potassium by Soils.
- 33. Calcium Sulphate in Aqueous Solutions: A Contribution to the Study of Alkali Deposits.
- 34. Reclamation of Alkali Soils.
- 35. Alkali Soils of the United States.
- 37. Experiments in Growing Cuban Seed Tobacco in Alabama.
- 38. Studies on the Movement of Soil Moisture.
- 39. Effects of Shading on Soil Conditions.
- 43. Reclamation of Alkali Lands in the Salt Lake Valley, Utah.
- 44. Reclamation of Alkali Soils at Billings, Mont.
- 46. Improvement of Virginia Fire-cured Tobacco.
- 50. Moisture Content and Physical Condition of Soils.
- 51. Absorption of Vapors and Gases by Soils.
- 52. Absorption by Soils.
- 53. The Isolation of Harmful Organic Substances from Soils.
- 54. The Mineral Composition of Soil Particles.
- 56. The Rôle of Oxidization in Soil Fertility.
- 57. A Study of Crop Yields and Soil Composition in Relation to Soil Productivity.
- 59. Heat Transference in Soils.
- 62. Fertilizers for Cotton Soils.
- 63. Reference List on the Electric Fixation of Atmospheric Nitrogen and the Use of Calcium Cyanamid and Calcium Nitrate on Soils.
- 69. A Review of the Phosphate Fields of Idaho, Utah, and Wyoming.
- 71. Soil Erosion.
- 72. Barium in Soils.
- 73. Studies in Soil Oxidation.
- 76. A Review of the Phosphate Fields of Florida.
- 80. Examination of Soils for Organic Constituents, Especially Dihydroxystearic Acid.

CIRCULARS.

[In applying for these circulars the name of the bureau, as well as the number of the circular, should be given, as "Bureau of Soils, Circular No. 5."]

- Circ. 5. Bulk Fermentation of Connecticut Tobacco.
- 10. The Use of Alkaline Waters for Irrigation.
- 11. Reclamation of Alkali Land at Fresno, Cal.
- 12. Reclamation of Alkali Land near Salt Lake City, Utah.
- 15. Manurial Requirements of the Leonardtown Loam Soil of St. Mary County, Md.
- 16. Manurial Requirements of the Cecil Silt Loam of Lancaster County, S. C.
- 17. Manurial Requirements of the Portsmouth Sandy Loam of the Darlington Area, South Carolina.
- 18. The Wire Basket Method of Determining the Manurial Requirements of Soils.
- 19. Soils in the Vicinity of Savannah, Ga.: A Preliminary Report.
- 20. Soils of Pender County, N. C.: A Preliminary Report.
- 21. Soils in the Vicinity of Brunswick, Ga.: A Preliminary Report.
- 22. Soils of the Eastern United States and Their Use—I. Norfolk Fine Sandy Loam.

- Circ. 23. Same, II. Norfolk Fine Sand.
24. Same, III. Portsmouth Sandy Loam.
25. Same, IV. Sassafra Silt Loam.
26. Examination of Soil Samples.
27. Soils of the Eastern United States and Their Use—V. Cecil Sandy Loam.
28. Same, VI. Cecil Clay.
29. Same, VII. Hagerstown Loam.
31. Same, IX. Miami Clay Loam.
32. Same, X. Marshall Silt Loam.
33. Same, XI. Knox Silt Loam.
34. Same, XII. Carrington Loam.
35. Same, XIII. Memphis Silt Loam.
36. Same, XIV. Fargo Clay Loam.
37. Same, XV. Clyde Loam.
38. Same, XVI. Dekalb Silt Loam.
39. Same, XVII. Porters Loam and Porters Black Loam.
40. Same, XVIII. Wabash Silt Loam.

MISCELLANEOUS.

Separate Reprint from Bul. 78:

Soils of the Atlantic and Gulf Coastal Plains Province.
Changes in Classification Involving change in Soil Name.

FARMERS' BULLETINS.

[The Farmers' Bulletins are a series of popular treatises issued by the Department of Agriculture. The following list includes only numbers contributed by the Bureau of Soils. They should be applied for by number, as "Farmers' Bulletin No. 60."]

- F. B. 60. Methods of Curing Tobacco.
82. The Culture of Tobacco.
83. Tobacco Soils.
88. Alkali Lands.
257. Soil Fertility.
266. Management of Soils to Conserve Moisture.
406. Soil Conservation.
421. The Control of Blowing Soils.

SEPARATE REPRINTS FROM THE YEARBOOK.

[In applying for these publications the number of the separate should be given, as "Yearbook Separate No. 27."]

- Ybk. Sep. 27. Tobacco Soils of Connecticut and Pennsylvania.
28. Truck Lands of the Atlantic Seaboard.
29. Conditions in Soils of the Arid Region.
188. Growth of the Tobacco Industry.
211. The World's Exhibit of Leaf Tobacco at the Paris Exposition of 1900.
291. Crops Used in the Reclamation of Alkali Lands in Egypt.
378. Dark Fire-cured Tobacco of Virginia and the Possibilities for Its Improvement.
415. The Use of Soil Surveys.
516. Agriculture in the Coal Regions of Southwestern Pennsylvania.
526. The Agricultural Duty of Water.

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SOIL SURVEYS.

[In requesting these publications the full title should be given, as "Soil Survey, Autauga County, Ala., 1908."]

ALABAMA:

- 1908. Autauga County.
- 1908. Bibb County.
- 1905. Blount County.
- 1908. Calhoun County.
- 1909. Chambers County.
- 1909. Coffee County.
- 1908. Colbert County.
- 1908. Cullman County.
- 1910. Dale County.
- 1905. Dallas County.
- 1908. Etowah County.
- 1903. Fort Payne area.
- 1909. Hale County.
- 1908. Henry County.
- 1903. Huntsville area.
- 1908. Jefferson County.
- 1908. Lamar County.
- 1905. Lauderdale County.
- 1906. Lee County.
- 1904. Macon County.
- 1907. Marion County.
- 1905. Montgomery County.
- 1904. Sumter County.
- 1907. Talladega County.
- 1909. Tallapoosa County.

ARIZONA:

- 1903. Solomonsville area.
- 1904. Yuma area.

ARKANSAS:

- 1907. Conway County.
- 1906. Fayetteville area.
- 1903. Miller County.
- 1906. Prairie County.
- 1902. Stuttgart area.

CALIFORNIA:

- 1904. Bakerfield area.
- 1907. Butte Valley, Siskiyou County.
- 1907. Colusa area.
- 1901. Imperial area.
- 1901. Lower Salinas Valley.
- 1908. Modesto-Turlock area.
- 1908. Pajaro Valley area.
- 1908. Portersville area.
- 1907. Redding area.
- 1901. Ventura area.
- 1909. Woodland area.
- 1904. Yuma area.

COLORADO:

- 1902. Lower Arkansas Valley.

CONNECTICUT:

- 1903. Connecticut Valley.

DELAWARE:

- 1903. Dover area.

FLORIDA:

- 1904. Gainesville area.
- 1907. Jefferson County.
- 1909. Marianna area.

GEORGIA:

- 1904. Bainbridge area.
- 1901. Cobb County.
- 1901. Covington area.
- 1904. Dodge County.
- 1903. Fort Valley area.
- 1909. Franklin County.
- 1908. Grady County.
- 1909. Hancock County.
- 1909. Pike County.
- 1905. Spalding County.
- 1908. Thomas County.
- 1909. Tift County.
- 1906. Waycross area.

IDAHO:

- 1903. Blackfoot area.
- 1901. Boise area.
- 1907. Minidoka area.

ILLINOIS:

- 1902. Clay County.
- 1902. Dubuque area, Iowa.
- 1903. Johnson County.
- 1903. Knox County.
- 1904. O'Fallon area, Missouri.
- 1903. Sangamon County.
- 1902. St. Clair County.
- 1902. Tazewell County.
- 1903. Winnebago County.

INDIANA:

- 1908. Allen County.
- 1904. Boonville area.
- 1906. Greene County.
- 1903. Madison County.
- 1907. Marion County.
- 1904. Marshall County.
- 1905. Newton County.

INDIANA—Continued.

- 1902. Posey County.
- 1904. Scott County.
- 1905. Tippecanoe County.

IOWA:

- 1903. Cerro Gordo County.
- 1902. Dubuque area.
- 1903. Story County.
- 1904. Tama County.

KANSAS:

- 1904. Allen County.
- 1905. Brown County.
- 1904. Garden City area.
- 1903. Parsons area.
- 1906. Riley County.
- 1903. Russell area.
- 1902. Wichita area.

KENTUCKY:

- 1905. McCracken County.
- 1905. Madison County.
- 1903. Mason County.
- 1903. Scott County.
- 1902. Union County.
- 1904. Warren County.

LOUISIANA:

- 1903. Acadia Parish.
- 1908. Bienville Parish.
- 1906. Caddo Parish.
- 1904. De Soto Parish.
- 1908. East and West Carroll Parishes.
- 1905. East Baton Rouge Parish.
- 1901. Lake Charles area.
- 1909. Lincoln Parish.
- 1903. New Orleans area.
- 1903. Ouachita area.
- 1905. Tangipahoa Parish.
- 1907. Winn Parish.

MAINE:

- 1908. Caribou area.
- 1909. Orono area.

MARYLAND:

- 1909. Anne Arundel County.
- 1900. Calvert County.
- 1900. Cecil County.
- 1907. Easton area.
- 1901. Harford County.

MASSACHUSETTS:

- 1903. Connecticut Valley.

MICHIGAN:

- 1904. Alma area.
- 1906. Cass County.

MICHIGAN—Continued.

- 1904. Munising area.
- 1904. Owosso area.
- 1905. Oxford area.
- 1903. Pontiac area.
- 1904. Saginaw area.
- 1902. Toledo area.
- 1908. Wexford County.

MINNESOTA:

- 1906. Blue Earth County.
- 1905. Carlton area.
- 1906. Crookston area.
- 1903. Marshall area.
- 1909. Rice County.
- 1904. Superior area.

MISSISSIPPI:

- 1909. Clay County.
- 1905. Crystalsprings area.
- 1908. Holmes County.
- 1904. Jackson area.
- 1907. Jasper County.
- 1903. McNeill area.
- 1908. Monroe County.
- 1906. Montgomery County.
- 1907. Oktibbeha County.
- 1906. Pontotoc County.
- 1907. Prentiss County.
- 1909. Scranton area.
- 1902. Smedes area.
- 1901. Yazoo area.

MISSOURI:

- 1909. Atchison County.
- 1908. Bates County.
- 1909. Cedar County.
- 1905. Crawford County.
- 1904. O'Fallon area.
- 1906. Putnam County.
- 1904. Saline County.
- 1905. Scotland County.
- 1903. Shelby County.
- 1904. Webster County.

MONTANA:

- 1902. Billings area.
- 1905. Gallatin Valley area.

NEBRASKA:

- 1903. Grand Island area.
- 1904. Kearney area.
- 1906. Lancaster County.
- 1907. North Platte area.
- 1905. Sarpy County.
- 1903. Stanton area.

NEW HAMPSHIRE:

- 1909. Nashua area.
- 1906. Merrimack County.

NEW YORK:

- 1902. Bigflats area.
- 1905. Binghamton area.
- 1907. Dutchess County.
- 1908. Livingston County.
- 1908. Montgomery County.
- 1904. Vergennes area, Vermont.
- 1909. Washington County.

NORTH CAROLINA:

- 1901. Alamance County.
- 1903. Asheville area.
- 1908. Caswell County.
- 1906. Chowan County.
- 1907. Edgecombe County.
- 1909. Gaston County.
- 1904. Greeneville area, Tennessee.
- 1907. Henderson County.
- 1909. Lake Mattamuskeet area.
- 1900. Raleigh to Newbern.
- 1908. Robeson County.
- 1909. Scotland County.
- 1906. Transylvania County.

NORTH DAKOTA:

- 1905. Carrington area.
- 1903. Fargo area.
- 1902. Grand Forks area.
- 1903. Jamestown area.
- 1907. McKenzie area.
- 1907. Morton area.
- 1906. Ransom County.
- 1908. Richland County.
- 1908. Western North Dakota.
- 1906. Williston area.

OHIO:

- 1903. Ashtabula area.
- 1909. Auglaize County.
- 1905. Cleveland area.
- 1902. Columbus area.
- 1904. Coshocton County.
- 1906. Meigs County.
- 1900. Montgomery County.
- 1902. Toledo area.
- 1905. Westerville area.
- 1904. Wooster area.

OREGON:

- 1903. Baker City area.
- 1909. Marshfield area.

PENNSYLVANIA:

- 1904. Adams County.
- 1909. Berks County.
- 1908. Center County.
- 1907. Johnstown area.
- 1900. Lancaster area.
- 1901. Lebanon area.
- 1903. Lockhaven area.
- 1909. Southwestern Pennsylvania.

PORTO RICO:

- 1902. Arecibo to Ponce.

RHODE ISLAND:

- 1904. Entire State.

SOUTH CAROLINA:

- 1902. Abbeville area.
- 1909. Anderson County.
- 1903. Campobello area.
- 1904. Charleston area.
- 1905. Cherokee County.
- 1909. Conway area.
- 1902. Darlington area.
- 1904. Lancaster County.
- 1907. Lee County.
- 1907. Oconee County.
- 1904. Orangeburg area.
- 1909. Saluda County.
- 1905. York County.

SOUTH DAKOTA:

- 1907. Belle Fourche area.
- 1903. Brookings area.
- 1909. Western South Dakota.

TENNESSEE:

- 1908. Coffee County.
- 1903. Davidson County.
- 1907. Giles County.
- 1906. Grainger County.
- 1904. Greeneville area.
- 1905. Henderson County.
- 1904. Lawrence County.
- 1906. Madison County.
- 1908. Overton County.
- 1903. Pikeville area.
- 1909. Sumner County.

TEXAS:

- 1907. Bastrop County.
- 1908. Camp County.
- 1907. Cooper area.
- 1908. Corpus Christi area.
- 1908. Franklin County.
- 1909. Grayson County.
- 1906. Henderson area.

Soil Surveys—Continued.

TEXAS—Continued.

- 1905. Houston County.
- 1905. Lee County.
- 1903. Lufkin area.
- 1909. Morris County.
- 1903. Nacogdoches area.
- 1907. Robertson County.
- 1906. San Marcos area.
- 1909. Titus County.
- 1905. Waco area.
- 1907. Wilson County.
- 1903. Woodville area.

UTAH:

- 1904. Bear River area.
- 1903. Provo area.

VERMONT:

- 1904. Vergennes area.

VIRGINIA:

- 1909. Campbell County.
- 1906. Chesterfield County.
- 1905. Hanover County.
- 1903. Leesburg area.
- 1905. Louisa County.
- 1907. Montgomery County.*

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WASHINGTON:

- 1907. Bellingham area.
- 1905. Everett area.
- 1905. Island County.
- 1902. Walla Walla area.
- 1909. Puget Sound Basin, Eastern Part, Washington.

WEST VIRGINIA:

- 1903. Leesburg area, Virginia.
- 1907. Middlebourne area.
- 1908. Parkersburg area.
- 1909. Spencer area.
- 1905. Upshur County.
- 1906. Wheeling area.

WISCONSIN:

- 1905. Carlton area, Minnesota.
- 1902. Janesville area.
- 1905. Portage County.
- 1906. Racine County.
- 1904. Superior area.
- 1903. Viroqua area.
- 1909. Waushara County.
- 1909. Marinetta County.

WYOMING:

- 1903. Laramie area.

